## EAST Search History

| Ref#       | Hits | Search Query   | DBs                       | Default<br>Operator | Plurals | Time Stamp          |
|------------|------|--|---------------------------|---------------------|---------|---------------------|
| S1         | 1    | ("5800325").PN.  | US-PGPUB;<br>USPAT; USOCR | OR                  | OFF     | 2007/07/13<br>11:43 |
| <b>S</b> 2 | 1846 | sensor with (knife or blade) with position   | US-PGPUB;<br>USPAT        | OR                  | ON      | 2004/01/12<br>13:49 |
| S3         | 245  | (sensor with (knife or blade) with position) and "83"/\$.ccls.   | US-PGPUB;<br>USPAT        | OR                  | ON      | 2004/01/12<br>15:31 |
| <b>S</b> 4 | 17   | ("1357241"   "3178974"   "3310855"   "3573859"   "3589222"   "3800363"   "3958482"   "4386465"   "4523500"   "4554852"   "5195410"   "5216614"   "5228372"   "5301587"   "5365816"   "5799555"). PN. | USPAT                     | OR                  | ON      | 2004/01/12<br>14:02 |
| S5         | 53   | (83/362).OCLS.   | US-PGPUB;<br>USPAT; USOCR | OR                  | OFF     | 2004/01/12<br>14:32 |
| S6         | 23   | (sensor with (knife or<br>blade) with position)<br>and (83/72.ccls. or<br>83/76.ccls.)   | US-PGPUB;<br>USPAT        | OR                  | ON      | 2004/01/12<br>15:20 |
| <b>S</b> 7 | 15   | ("1357241"   "3178974"   "3310855"   "3573859"   "3800363"   "3958482"   "4386465"   "4391168"   "4554852"   "5195410"   "5216614"   "5228372"   "5301587"   "5365816"   "5799555").PN.              | USPAT                     | OR                  | ON      | 2004/01/12<br>15:09 |
| S8         | 149  | (83/76).COLS.  | US-PGPUB;<br>USPAT; USOCR | OR                  | OFF     | 2006/05/30<br>15:58 |
| S9         | 40   | (sensor with (knife or blade) with position) and "493"/\$.ccls.  | US-PGPUB;<br>USPAT        | OR                  | ON      | 2004/01/12<br>15:40 |
| S10        | 4    | ("4070951"   "4617850"<br>  "4834698"  <br>"5201697").PN.  | USPAT                     | OR                  | ON      | 2004/01/12<br>15:33 |
| S11        | 1    | (sensor with (knife or<br>blade) with position)<br>and "493"/\$.ccls.  | USOCR                     | OR                  | ON      | 2004/01/12<br>15:41 |

| S12 | 22955 | (synchronize or<br>synchronized or<br>synchronizing or<br>synchronization) same<br>(cut or cutter or cutting)                                 | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2005/04/04<br>13:27 |
|-----|-------|---|---|----|-----|---------------------|
| S13 | 7715  | (synchronize or<br>synchronized or<br>synchronizing or<br>synchronization) with<br>(cut or cutter or cutting)                                 | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2005/04/04<br>13:27 |
| S14 | 1652  | \$13 and ("83"/\$.ccls. or "493"/\$.ccls.)  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2005/04/04<br>13:27 |
| S15 | 1     | ("3178974").PN.   | USOCR   | OR | OFF | 2005/11/21<br>17:42 |
| S16 | 106   | (83/354).OCLS.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/30<br>16:12 |
| S17 | 7     | ("3442168").URPN.   | USPAT   | OR | ON  | 2006/05/30<br>16:05 |
| S18 | 0     | (83/354). OCLS.   | EPO; JPO;<br>DERWENT;<br>IBM_TDB                                  | OR | OFF | 2006/05/30<br>16:11 |
| S19 | 205   | ((83/76) or (83/362)).<br>CCLS.   | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/30<br>16:26 |
| S20 | 15    | ((83/76) or (83/362)).<br>CCLS.   | EPO; JPO;<br>DERWENT;<br>IBM_TDB                                  | OR | OFF | 2006/05/30<br>16:26 |
| S21 | 2802  | (indicia same (sense or<br>sensor)) and (cut or<br>cutter or cutting or<br>blade or knife) and<br>(vary or varying or<br>adjust or adjusting) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/30<br>16:29 |
| S22 | 543   | S21 and (synchronize or synchronizing or synchronization)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/30<br>16:36 |
| S23 | 16    | S22 and ("83"/\$.ccls. or<br>"493"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/30<br>16:37 |
| S24 | 1     | ("4077287").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2007/07/11<br>19:00 |
| S25 | 318   | ((83/76) or (83/354) or (83/362)). CCLS.  | US-PGPUB;<br>USPAT  | OR | OFF | 2007/07/13<br>11:44 |

| S26        | 27 |                         | US-PGPUB;        | OR                                      | ON                                      | 2007/07/13                              |
|------------|----|-------------------------|------------------|---|---|---|
|            |    | "3604300"               | USPAT; USOCR     |   |   | 15:13                                   |
|            |    | "3736821"   "3978703"   |                  | *************************************** |   |   |
|            |    | "4158976"               |                  |   |   |   |
|            |    | "4170155"   "4302996"   |                  |   |   |   |
|            |    | "4387614"               |                  |   |   |   |
|            |    | "4464959"   "4497229"   |                  |   |   |   |
|            |    | "4512225"               |                  |   |   |   |
|            |    | "4532840"   "4543863"   |                  |   |   |   |
|            |    | "4585600"               |                  |   |   |   |
|            |    | "4737904"   "4781090"   |                  |   |   |   |
|            |    | "5205190"               |                  |   |   |   |
|            |    | "5433065"   "5713256"   |                  |   |   |   |
|            |    | "5727435"               |                  |   |   |   |
|            |    | "5850773"   "5857393"   |                  |   |   |   |
|            |    | "5921160"               |                  |   |   |   |
|            |    | "6508152").PN. OR       |                  |   |   |   |
|            |    | ("6769336").URPN.       |                  |   |   |   |
| S27        | 15 | ("3614572"   "4183271"  | US-PGPUR:        | OR                                      | ON                                      | 2007/07/13                              |
| <u>~</u> , |    |                         | USPAT; USOCR     | ) · ·                                   | ) 1                                     | 16:36                                   |
|            |    | "4283975"   "Re30628"). | 33.7.17, 3330011 |   |   | 1.0.00                                  |
|            |    | PN. OR ("4497229").     |                  |   |   |   |
|            |    | URPN.                   |                  |   |   |   |
|            |    |                         |                  |   |   |   |
| S28        | 76 |                         | US-PGPUB;        | OR                                      | ON                                      | 2007/07/13                              |
|            |    | "2576529"               | USPAT; USOCR     |   |   | 18:10                                   |
|            |    | "2877846"   "2971414"   |                  |   |   |   |
|            |    | "3000250"               |                  |   |   |   |
|            |    | "3094027"   "3105405"   |                  |   |   |   |
|            |    | "3143017"               |                  |   |   |   |
|            |    | "3169432"   "3401585"   |                  |   |   |   |
|            |    | "3543620"               |                  |   |   |   |
|            |    | "3543624"   "3811768"   |                  |   |   |   |
|            |    | "3828636"               |                  |   |   |   |
|            |    | "3869950"   "3945279"   |                  |   |   |   |
|            |    | "3956954"               |                  |   |   |   |
|            |    | "3982454"   "4119003"   |                  |   |   |   |
|            |    | "4183271"               |                  |   |   |   |
|            |    | "4194421"   "4201102"   |                  |   |   |   |
|            |    | "4255998"               |                  |   |   |   |
|            |    | "4287797"   "4293774"   |                  |   |   |   |
|            |    | "4297930"               |                  |   |   |   |
|            |    | "4356745"   "4380940"   |                  |   |   |   |
|            |    | "4423925"               |                  |   |   |   |
|            |    | "4449433"   "4497229"   |                  | *************************************** |   |   |
|            |    | "4519868"               |                  |   |   |   |
|            |    | "4618391"   "4664006"   |                  |   |   | *************************************** |
|            |    | "4719575"               |                  |   |   |   |
|            |    | "4721058"   "4781090"   |                  |   |   |   |
|            |    | "4896605"               |                  |   |   |   |
|            |    | "4943341"   "5000069"   |                  |   |   |   |
|            |    | "5000812"               |                  |   |   |   |
|            |    | "5001952"   "5095219"   |                  |   | *************************************** |   |
|            |    | "5119725"               |                  |   |   |   |
|            |    | "5130724"   "5235882"   |                  |   |   |   |
|            | 1  | "5241884"               | <b>\$</b>        | : 5                                     |   | : \$                                    |

|      | *************************************** | "5257567"   "5359915"<br>  "5415092"  <br>"5432586").PN. OR<br>("5765460").URPN.   |   |    |    | minimum.            |
|------|---|--|---|----|----|---------------------|
| \$29 | 15902                                   | (cut or cutter or cutting or blade or knife) and (synchronize or synchronized or synchronization) and (sense or sensed or sensing or detect or detected or detecting or detection) and (actuate or actuated or actuation) and (adjust or adjusted or adjusting)                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17          |
| S30  | 444                                     | \$29 and "83"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>18:43 |
| S31  | 144                                     | S30 and web  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>18:43 |
| \$32 | 2702                                    | ((cut or cutter or cutting or blade or knife) with (sense or sensed or sensing or detect or detected or detecting or detection)) and (synchronize or synchronized or synchronizing or synchronization) and (actuate or actuated or actuating or actuation) and (adjust or adjusted or adjusting) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17          |
| S33  | 251                                     | S32 and "83"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>18:44 |

| S34                                    | 82   | S33 and web   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON     | 2008/03/17<br>18:45 |
|--|------|---|---|----|--------|---------------------|
| S35                                    | 15   | ("3276647"   "4201102"<br>  "4211132"  <br>"4255998").PN. OR<br>("4669344").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON     | 2008/03/17<br>18:46 |
| ************************************** | 20   | ((cut or cutter or cutting or blade or knife) near3 (reciprocate or reciprocated or reciprocation or oscillate or oscillated or oscillating or oscillation) with (sense or sensed or sensing or detect or detected or detecting or detection)) and (synchronize or synchronized or synchronizing or synchronization) and (actuate or actuation) and (adjust or adjusted or adjusting) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | 2<br>2 | 2008/03/17<br>20:44 |
|  | 2681 | ((cut or cutter or cutting or blade or knife) near3 (reciprocate or reciprocated or reciprocating or reciprocation or oscillate or oscillated or oscillating or oscillation)) and ((cut or cutter or cutting or blade or knife) with (sense or sensed or sensing or detection or detection))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OZ     | 2008/03/17<br>20:52 |
| S38                                    | 432  | S37 and (synchronize or<br>synchronized or<br>synchronizing or<br>synchronization)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON     | 2008/03/17<br>20:52 |

| <b>S</b> 39 | 85   | \$38 and "83"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>20:53 |
|-------------|------|---|---|----|----|---------------------|
| S40         | 1788 | ((cut or cutter or cutting or blade or knife) near3 (reciprocate or reciprocated or reciprocating or reciprocation)) and ((cut or cutter or cutting or blade or knife) with (sense or sensed or sensing or detect or detected or detecting or detection)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>21:50 |
| S41         | 421  | S40 and "83"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>21:51 |
| S42         | 72   | S41 and (synchronize or synchronized or synchronizing or synchronization)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/17<br>21:52 |
| S43         | 185  | (83/597-612).ccls. and<br>(sense or sensor or<br>sensing or detect or<br>detected or detecting or<br>detection)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/18<br>20:11 |
| S44         | 56   | S43 and ((sense or<br>sensor or sensing or<br>detect or detected or<br>detecting or detection)<br>with (tool or blade or<br>knife or cutter))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/18<br>20:12 |
| S45         | 4    | ("3772986"   "5762480"<br>  "5921125"  <br>"6626022").PN. OR<br>("7004006").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/05/19<br>15:42 |
| S46         | 8    | ("3722435"   "3731577"<br>  "3888395"  <br>"4589761"   "4621585"<br>  "4688499"  <br>"4856439"   "4962712").<br>PN. OR ("5355598").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/05/19<br>17:23 |

| 047 | £4.7       |                |     | LIC DODLID. | <b>OD</b> | OFF | 0000/05/00 |
|-----|------------|----------------|-----|-------------|-----------|-----|------------|
| S47 | 47         | (("5315807")   |     | US-PGPUB;   | OR        | OFF | 2008/05/20 |
|     |            | ("5346150")    |     | USPAT       |           |     | 14:26      |
|     |            | ("5481083")    |     |             |           |     |            |
|     |            | ("6145777")    |     |             |           |     |            |
|     |            | ("5967447")    |     |             |           |     |            |
|     |            | ("6019306")    |     |             |           |     |            |
|     |            | ("5632849")    |     |             |           |     |            |
|     |            | ("4313359")    | or  |             |           |     |            |
|     |            | ("4333372")    | or  |             |           |     |            |
|     |            | ("5954291")    | or  |             |           |     |            |
|     |            | ("5996237")    | or  |             |           |     |            |
|     |            | ("6149099")    | or  |             |           |     |            |
|     |            | ("4422588")    | or  |             |           |     |            |
|     |            | ("4530265")    | or  |             |           |     |            |
|     |            | ("4919352")    | or  |             |           |     |            |
|     |            | ("4930383")    | or  |             |           |     |            |
|     |            | ("5261262")    | or  |             |           |     |            |
|     |            | ("5572433")    |     |             |           |     |            |
|     |            | ("5659538")    |     |             |           |     |            |
|     |            | ("5662018")    |     |             |           |     |            |
|     |            | ("6155152")    |     |             |           |     |            |
|     |            | ("6220134")    |     |             |           |     |            |
|     |            | ("6220134")    |     |             |           |     |            |
|     |            | ("6244321")    |     |             |           |     |            |
|     |            | ("200300892    |     |             |           |     |            |
|     |            | ("200600163    |     |             |           |     |            |
|     |            | ("200602612    |     |             |           |     |            |
|     |            | ("6217497")    |     |             |           |     |            |
|     |            | ("6217497")    | - 2 |             |           |     |            |
|     |            | ("6451145")    |     |             |           |     |            |
|     |            | ("6093139")    |     |             |           |     |            |
|     |            | ("5800325")    |     |             |           |     |            |
|     |            | ("6024683")    |     |             |           |     |            |
|     |            | ("4455190")    |     |             |           |     |            |
|     |            | ("5687622")    |     |             |           |     |            |
|     |            | ("5916335")    |     |             |           |     |            |
|     |            | ("6071222")    |     |             |           |     |            |
|     |            | ("6079470")    |     |             |           |     |            |
|     |            | ("6206321")    |     |             |           |     |            |
|     |            | ("5918518")    | - 1 |             |           |     |            |
|     |            | ("6058817")    |     |             |           |     |            |
|     |            | ("6058817")    |     |             |           |     |            |
|     |            | ("4275629")    |     |             |           |     |            |
|     |            | ("5199341")    |     |             |           |     |            |
|     |            | ("5245899")    |     |             |           |     |            |
|     |            | ("5271302")    |     |             |           |     |            |
|     |            | ("3898900")    |     |             |           |     |            |
|     |            | ("3847046")    |     |             |           |     |            |
|     |            | ("3824907")    | - 1 |             |           |     |            |
|     |            | ("4143568"))   |     |             |           |     |            |
| 3   | i <b>i</b> | ;( 11 10000 )) |     |             | <b>.</b>  | \$  |            |

| S48 | 47    | (US-20030089209-\$ or  | US-PGPUB; | OR  | ON                                      | 2008/05/20 |
|-----|-------|--|-----------|-----|---|------------|
| O+0 | 7/    | US-20060016307-\$ or   | USPAT     | OTT | OI V                                    | 15:37      |
|     |       | US-20060261208-\$).did.  | OSIAI     |     |   | 13.37      |
|     |       | or (US-5315807-\$ or US-   |           |     |   |            |
|     |       | 5346150-\$ or US-  |           |     |   |            |
|     |       | 5481083-\$ or US-  |           |     |   |            |
|     |       | 6145777-\$ or US-  |           |     | -                                       |            |
|     |       | 5967447-\$ or US-  |           |     |   |            |
|     |       |  |           |     |   |            |
|     |       | 6019306-\$ or US-<br>5632849-\$ or US-   |           |     |   |            |
|     |       | - 12 to 12 t |           |     |   |            |
|     |       | 4313359-\$ or US-<br>4333372-\$ or US-   |           |     |   |            |
|     |       | 5954291-\$ or US-  |           |     |   |            |
|     |       | 5996237-\$ or US-  |           |     |   |            |
|     |       | 6149099-\$ or US-  |           |     | -                                       |            |
|     |       | 4422588-\$ or US-  |           |     |   |            |
|     |       | 4530265-\$ or US-  |           |     |   |            |
|     |       | 4919352-\$ or US-  |           |     |   |            |
|     |       | 4930383-\$ or US-  |           |     |   |            |
|     |       | 5261262-\$ or US-  |           |     | -                                       |            |
|     |       | 5572433-\$ or US-  |           |     |   |            |
|     |       | 5659538-\$ or US-  |           |     |   |            |
|     |       | 5662018-\$ or US-  |           |     |   |            |
|     |       | 6155152-\$ or US-  |           |     | -                                       |            |
|     |       | 6220134-\$ or US-  |           |     |   |            |
|     |       | 6244321-\$ or US-  |           |     |   |            |
|     |       | 6217497-\$ or US-  |           |     |   |            |
|     |       | 6451145-\$ or US-  |           |     |   |            |
|     |       | 6093139-\$).did. or (US-   |           |     |   |            |
|     |       | 5800325-\$ or US-  |           |     |   |            |
|     |       | 6024683-\$ or US-  |           |     |   |            |
|     |       | 4455190-\$ or US-  |           |     |   |            |
|     |       | 5687622-\$ or US-  |           |     |   |            |
|     |       | 5916335-\$ or US-  |           |     | *************************************** |            |
|     |       | 6071222-\$ or US-  |           |     |   |            |
|     |       | 6079470-\$ or US-  |           |     | 3                                       |            |
|     |       | 6206321-\$ or US-  |           |     |   |            |
|     |       | 5918518-\$ or US-  |           |     |   |            |
|     |       | 6058817-\$ or US-  |           |     |   |            |
|     |       | 4275629-\$ or US-  |           |     |   |            |
|     |       | 5199341-\$ or US-  |           |     |   |            |
|     |       | 5245899-\$ or US-  |           |     |   |            |
|     |       | 5271302-\$ or US-  |           |     |   |            |
|     |       | 3898900-\$ or US-  |           |     |   |            |
|     |       | 3847046-\$ or US-  |           |     |   |            |
|     |       | 3824907-\$ or US-  |           |     |   |            |
|     |       | 4143568-\$).did.   |           |     |   |            |
| 3   | .: \$ | · · · · · · · · · · · · · · · · · · ·  | 3         | 3   | 3                                       | \$         |

| S49   47  | <br>5/20 |
|---|----------|
| US-20060261208-\$).did. or (US-5315807-\$ or US- 5346150-\$ or US- 5481083-\$ or US- 6145777-\$ or US- 6145777-\$ or US- 6019306-\$ or US- 5632849-\$ or US- 4333372-\$ or US- 5954291-\$ or US- 5996237-\$ or US- 6149099-\$ or US- 64422588-\$ or US- 44919352-\$ or US- 44919352-\$ or US- 44919352-\$ or US- 55652638-\$ or US- 5562018-\$ or US- 5565203-\$ or US- 6220134-\$ or US- 6220134-\$ or US- 622134-\$ or US- 622134-\$ or US- 622134-\$ or US- 622134-\$ or US- 624321-\$ or US- 6345145-\$ or US- 6451145-\$ or US- 6591835-\$ or US- 5697622-\$ or US- 5697622-\$ or US- 5697622-\$ or US- 5697470-\$ or US- 5697877-\$ or US- 5697877-\$ or US- 5698817-\$ or US- 5918518-\$ or US- 591831-\$ or US- 5918518-\$ or US-   | J, 20    |
| or (US-5315807-\$ or US-5346150 \$ or US-5461083 \$ or US-6145777-\$ or US-5967447-\$ or US-5967447-\$ or US-6019306-\$ or US-3598249-\$ or US-4313359-\$ or US-4333372-\$ or US-5598237-\$ or US-5996237-\$ or US-6149099-\$ or US-4422588-\$ or US-4530265-\$ or US-4530265-\$ or US-4919352-\$ or US-5565983-\$ or US-5565983-\$ or US-565983-\$ or US-565983-\$ or US-565933-\$ or US-565933-\$ or US-565933-\$ or US-565933-\$ or US-565933-\$ or US-6241321-\$ or US-6241321-\$ or US-6244321-\$ or US-6244321-\$ or US-6244321-\$ or US-6217497-\$ or US-6217497-\$ or US-6217497-\$ or US-602463-\$ or US-56693139-\$). did. or (US-5800325-\$ or US-5687622-\$ or US-5918518-\$ or US-6079470-\$ or US-5916335-\$ or US-5918518-\$ or US-591851 |          |
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| S51 0 S48 not S49 US-PGPUB; OR ON USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB   | 2008/05/20<br>15:39 |

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| S54         | <b>O</b>                                 | S48 not S53  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/05/20<br>15:40 |
| <b>S</b> 55 | 7  | (("3347119") or<br>("3756149") or<br>("4416200") or<br>("4617850") or<br>("4719855") or<br>("5286317") or<br>("5879278")).PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2008/05/27<br>14:22 |
| S56         | 211                                      | ((83/327) or (83/328)).<br>CCLS.   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/05/27<br>15:59 |
| S57         | 7  | ("2261007").PN. OR<br>("3946630").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/05/27<br>16:18 |
| S58         | 12                                       | ((83/327) or (83/328)).<br>CCLS.   | FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                               | OR | OFF | 2008/05/27<br>16:30 |
| S59         | 469                                      | (83/371).OCLS.   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/05/27<br>16:33 |
| S60         | 51383                                    | (sensor or sensing or<br>detector or detected or<br>detecting or detection)<br>near3 (tool or cutter or<br>cutting or blade or<br>knife)                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/05/27<br>17:22 |
| S61         | 660                                      | S60 and (oscillate or oscillated or oscillating or oscillation) near3 (tool or cutter or cutting or blade or knife)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/05/27<br>17:24 |
| S62         | 42                                       | S61 and web  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/05/27<br>17:24 |
| S63         | 50597                                    | (oscillate or oscillated or oscillating or oscillation or reciprocate or reciprocated or reciprocating or reciprocation) near3 (tool or cutter or cutting or blade or knife) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/05/27<br>18:13 |

| S64 | 1462   | S63 and ((tool or cutter<br>or cutting or blade or<br>knife) near3 (sensor or<br>sensing or detector or<br>detected or detecting or<br>detection))        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/27<br>18:14 |
|-----|--------|---|---|----|----|---------------------|
| S65 | 136    | S64 and web   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/27<br>18:15 |
| S66 | 5960   | (detect or detected or<br>detecting or senses or<br>sensing) near2 (knife or<br>blade)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/27<br>18:25 |
| S67 | 539    | S66 and "83"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/27<br>18:26 |
| S68 | 80     | S67 and ((oscillate or oscillated or oscillating or oscillation or reciprocate or reciprocated or reciprocating or reciprocation) near3 (knife or blade)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/27<br>18:28 |
| S69 | 129870 | ((sensor or sensing or<br>detect or detected or<br>detecting or detection)<br>with (tool or blade or<br>knife or cutter or<br>cutting))                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/29<br>10:32 |
| S70 | 1155   | S69 and (83/350-372).<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/29<br>10:33 |
| S71 | 249    | S70 and web   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/29<br>10:33 |

| S72 | 4856 | (sensor or sensing or<br>detect or detector or<br>detecting or detection)<br>with ((tool or blade or<br>knife or cutter or<br>cutting) with path) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/29<br>18:17 |
|-----|------|---|---|----|----|---------------------|
| S73 | 202  | S72 and (83/350-372).<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/05/29<br>18:18 |
| S74 | 8    | ("3707103"   "3820429"<br>  "4077287"  <br>"4128887").PN. OR<br>("4193329").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/05/30<br>11:01 |
| S75 | 8    | ("3811768"   "3813976"<br>  "3933069"  <br>"3992965"   "4020406"<br>  "4034635").PN. OR<br>("4128887").URPN.                                      | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/05/30<br>11:03 |
| S76 | 29   | ("3181403"   "3604300"<br>  "3668957"  <br>"3706248"   "3730810"<br>  "3870936").PN. OR<br>("4020406").URPN.                                      | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/05/30<br>11:07 |

5/30/08 8:04:02 PM

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